

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.



SUBSTITUTE FOR FORM 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 3

## Complete if Known

Application Number	10/648,585*
Filing Date	August 2, 2003
First Named Inventor	Datta, et al.
Art Unit	1731
Examiner Name	Queenie S. Dehghan
Attorney Docket Number	129843-1102

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/QSD/		US- 6,207,077	3/2001	Burnell-Jones	
		US- 6,048,593	4/2000	Espeland et al.	
		US- 6,034,155	3/2000	Espeland et al.	
		US- 5,967,211	10/1999	Lucas et al.	
		US- 5,858,083	1/1999	Stav et al.	
		US- 5,895,768	4/1999	Speit, Burkhard	
		US- 5,849,055	12/15/1998	Aria et al.	
		US- 5,194,334	3/1993	Uerdingen et al.	
		US- 4,983,550	1/1991	Goetz et al.	
		US- 4,871,495	10/31/1989	Helperich	
		US- 4,767,726	8/1988	Marshall	
		US- 4,602,962	7/29/1986	Fehlmann	
		US- 4,430,108	2/7/1984	Hojaji	
		US- 4,303,732	12/1981	Torobin	
		US- 4,133,854	1/9/1979	Hendricks	
		US- 4,059,423	1/22/1977	De Vos	
		US- 2,797,201	6/25/1957	Veatch et al.	
		US- 5,128,114	7/7/1992	Schwartz	
/QSD/		US- 2002/0043996 A1	2/2002	Meyer	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
/QSD/		WO 2004/101137 A1	1/25/2004	Hojaji et al.		
/QSD/		WO 2004/018090 A1	3/4/2004	Datta et al.		

Examiner Signature	/Queenie Dehghan/	Date Considered	05/16/2007
--------------------	-------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.**

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		Application Number	10/648,585*
		Filing Date	August 2, 2003
		First Named Inventor	Datta, et al.
		Art Unit	1731
		Examiner Name	Queenie S. Dehghan
Sheet	2	of	3
		Attorney Docket Number	129843-1102

Examiner Signature	/Queenie Dehghan/	Date Considered	05/16/2007
-----------------------	-------------------	--------------------	------------

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<b>Complete if Known</b>			
		Application Number	10/648,585		
		Filing Date	August 2, 2003		
		First Named Inventor	Datta, et al.		
		Art Unit	1731		
		Examiner Name	Queenie S. Dehghan		
Sheet	3	of	3	Attorney Docket Number	129843-1102

<b>NON PATENT LITERATURE DOCUMENTS</b>				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
/QSD/		P.K. KOLAY, D.N. SINGH, Physical, chemical, mineralogical, and thermal properties of cenospheres from an ash lagoon, Cement and Concrete Research, 2001, Pgs. 539-542, Vol. 31		
/QSD/		What are Cenospheres, <a href="http://www.microspheres.co.za/contents.htm">www.microspheres.co.za/contents.htm</a> , printed 7/11/2006.		
/QSD/		GUBKA, Composition and Morphology of Cenospheres Chemical & Physical Properties, <a href="http://www.atom.nw.ru/rie/projects/gubka/properties/cenospheres.shtml">www.atom.nw.ru/rie/projects/gubka/properties/cenospheres.shtml</a> , printed 7/11/2006.		
/QSD/		DROZHZHIN, V.S., PIKULIN, I.V., KUVAEV, M.D., REDYUSHEV, S.A., SHPIRT, M.Y., Technical Monitoring of Microspheres from Fly Ashes of Electric Power Stations in the Russian Federation, New Products 3 presentation at International Ash Utilization Symposia and the World of Coal Ash Conference, 2005, available at <a href="http://whocares-caer.uky.edu/wasp/AshSymposium/AshLibraryAuthors.asp">http://whocares-caer.uky.edu/wasp/AshSymposium/AshLibraryAuthors.asp</a>		
/QSD/		3M Material Safety Data Sheet, 3M Glass Bubbles, Types K and S, 04/10/2006, pp. 1-7.		
*		Glass Corning Glass Works reprinted version of the Encyclopedia of Chemical Technology, Vol. 10, 3 pp.		
*		Appl. Serial No. 11/031,406 filed by EERC - abandoned due to preliminary injunction issued in favor of James Hardie International Finance B.V.		
*		Appl. Serial No. 11/031,829 filed by EERC - abandoned due to preliminary injunction issued in favor of James Hardie International Finance B.V.		

Examiner Signature	/Queenie Dehghan/	Date Considered	05/16/2007
--------------------	-------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.  
 This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:  
 Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

\* DID NOT RECEIVE